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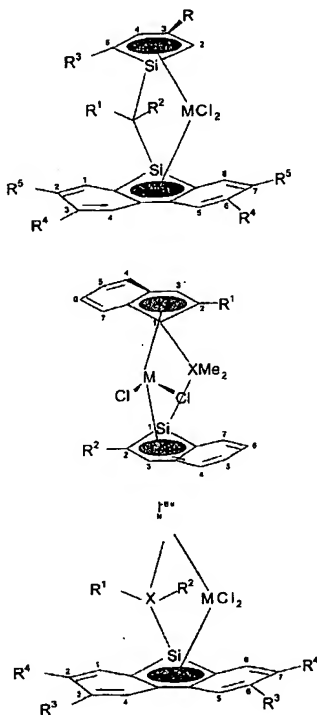
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(54) Title: SILICON CONTAINING CYCLOPENTADIENYL RING FOR METALLOCENE CATALYST COMPONENTS



(57) Abstract: The present invention refers to a metallocene catalyst component for producing polyolefins according to formula (I) $R''_n(CpR_n)_2(CpR_n)M Q_{3-n}$ (I) or according to formula (II) $R''(CpR_n)MeXQ$ (II) wherein - each Cp is a substituted or unsubstituted cyclopentadienyl ring with the bridge-head position of at least one of the cyclopentadienyl rings being occupied by a silicon atom; - each R is the same or different and is hydrogen or a hydrocarbyl radical such as alkyl, alkenyl, aryl, alkylaryl or arylalkyl radical containing from 1 to 20 carbon atoms or two carbon atoms are joined together to form a C4-C6 ring; - R'' is a structural bridge between two Cp rings; - M is a group IIIB, IVB, VB or VIB metal; - Q is a hydrocarbyl radical such as aryl, alkyl, alkenyl, alkylaryl or arylalkyl radical having from 1 to 20 carbon atoms, a hydrocarboxy radical having from 1 to 20 carbon atoms or a halogen and can be the same or different from each other; - s is 0 or 1, g is 0, 1 or 2 and s is 0 when g is 0, n is 4 when s is 1 and n is 5 when s is 0; - X is an hetero atom ligand with one or two lone pair electrons and selected from the group VA or VIA, substituted or unsubstituted. Said metallocene catalyst component is used in a catalyst system for preparing polyolefins with desired properties.

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